SUBJECT INDEX

Acrolein, p. 133
Activation energy, p. 323
Air movement, p. 365
Bedding flammability, p. 386
Bushfires, p. 20
CAL TB 133 screening, p. 243
Carbon monoxide, pp. 133, 457
Cigarettes, p. 365
CNET printed circuit, p. 432
CO_2/CO ratio, p. 411
Combustibility
  fabric, p. 40
  flexible foam, p. 40
  upholstery, p. 40
Combustion
  gases, p. 169
  modified, p. 28
  perfluorinated resin, p. 488
  products, p. 58
  radiant, p. 72
  studies, p. 183
Compartment fires, p. 528
Cone calorimeter, pp. 3, 97, 118, 294
Copper, p. 160
Corrosion
  and smoke damage, p. 188
  dewpoint, p. 260
  models, p. 432
  processes, p. 260
  rates, p. 294
Corrosivity
  fire, pp. 102, 294
  measurement techniques, p. 188
  of structural materials, p. 294
  smoke, pp. 72, 160, 169, 294, 432
  testing, p. 102
Cotton, p. 335
Critical oxygen index, p. 183
Dewpoint
  corrosion, p. 260
  hydrogen bromide/water, p. 260
  hydrogen chloride/water, p. 260
  hydrogen fluoride/water, p. 260
DIN decomposition apparatus, pp. 118, 411
Dual chamber box, p. 118
Electrical cables
  classification of, p. 188
  corrosion of, p. 188
FMRC specification testing of, p. 188
Electrical charges on smoke, p. 188
Equipment restoration, p. 169
Fabric
  combustibility of, p. 40
  detergent effects, p. 335
  durability of, p. 335
  flammability of, p. 243
  microscopy, p. 335
  upholstery, p. 365
Fiber
  flame retardant, p. 323
  polychlal, p. 323
  structure, p. 335
Fire
  compartment, p. 528
  corrosivity, pp. 102, 284
  damage, pp. 160, 188
  deaths, p. 457
  effluents, p. 411
  extinction, p. 20
  field study, p. 58
  gases, p. 169
  hazards due to corrosive products, p. 188
  large-scale, p. 188
  models, pp. 118, 289, 457
  model validation, p. 528
  odors, p. 58
  products, chemical structure of, p. 188
  products, corrosivity of, p. 102
  products, generation rates of, p. 188
  protection, passive, p. 188
  safety, p. 386
  spread of, p. 188
  testing, full-scale, p. 386
  wood, p. 20
Flame retardancy, pp. 323, 335
Flame retardants

SUBJECT INDEX

Acrolein, p. 133
Activation energy, p. 323
Air movement, p. 365
Bedding flammability, p. 386
Bushfires, p. 20
CAL TB 133 screening, p. 243
Carbon monoxide, pp. 133, 457
Cigarettes, p. 365
CNET printed circuit, p. 432
CO_2/CO ratio, p. 411
Combustibility
  fabric, p. 40
  flexible foam, p. 40
  upholstery, p. 40
Combustion
  gases, p. 169
  modified, p. 28
  perfluorinated resin, p. 488
  products, p. 58
  radiant, p. 72
  studies, p. 183
Compartment fires, p. 528
Cone calorimeter, pp. 3, 97, 118, 294
Copper, p. 160
Corrosion
  and smoke damage, p. 188
  dewpoint, p. 260
  models, p. 432
  processes, p. 260
  rates, p. 294
Corrosivity
  fire, pp. 102, 294
  measurement techniques, p. 188
  of structural materials, p. 294
  smoke, pp. 72, 160, 169, 294, 432
  testing, p. 102
Cotton, p. 335
Critical oxygen index, p. 183
Dewpoint
  corrosion, p. 260
  hydrogen bromide/water, p. 260
  hydrogen chloride/water, p. 260
  hydrogen fluoride/water, p. 260
DIN decomposition apparatus, pp. 118, 411
Dual chamber box, p. 118
Electrical cables
  classification of, p. 188
  corrosion of, p. 188
FMRC specification testing of, p. 188
Electrical charges on smoke, p. 188
Equipment restoration, p. 169
Fabric
  combustibility of, p. 40
  detergent effects, p. 335
  durability of, p. 335
  flammability of, p. 243
  microscopy, p. 335
  upholstery, p. 365
Fiber
  flame retardant, p. 323
  polychlal, p. 323
  structure, p. 335
Fire
  compartment, p. 528
  corrosivity, pp. 102, 284
  damage, pp. 160, 188
  deaths, p. 457
  effluents, p. 411
  extinction, p. 20
  field study, p. 58
  gases, p. 169
  hazards due to corrosive products, p. 188
  large-scale, p. 188
  models, pp. 118, 289, 457
  model validation, p. 528
  odors, p. 58
  products, chemical structure of, p. 188
  products, corrosivity of, p. 102
  products, generation rates of, p. 188
  protection, passive, p. 188
  safety, p. 386
  spread of, p. 188
  testing, full-scale, p. 386
  wood, p. 20
Flame retardancy, pp. 323, 335
Flame retardants

bromophosphate, p. 470
chlorophosphate, p. 470
engineering thermoplastics, p. 470
phosphorous, p. 470
polycarbonate, p. 470
polyesters, p. 470
polymer blends, p. 470
polypropylene, p. 470
Flammability
fabric, p. 243
foam, pp. 28, 243
furniture, p. 243
mattress, p. 386
upholstery, p. 243
Flashover, p. 386
FMRC cable specification testing, p. 188
FMRC 50 kw-scale apparatus, p. 188
Foam
combustibility of, p. 40
combustion modified high resilience, p. 28
flammability of, p. 243
polyurethane, p. 28
Forest safety, p. 20
Furniture, flammability of, p. 243
Gas mixtures, p. 133
GC/MS, p. 58
Halogenated materials, p. 169
Heat of drying, p. 352
Heat release rate, pp. 97, 188, 294, 386
Horizontal burn test, p. 183
Hydrogen chloride, pp. 97, 289
Ignition oxygen level, p. 365
Ignition propensity, p. 365
Ignition source, p. 386
Incapacitation, p. 133
Intumescence, p. 470
Irritant gases, p. 133
ISO smoke box, p. 118
Laundering effect on flame retardancy, p. 335
Mattresses, p. 386
cotton batting, p. 386
flammability of, p. 386
foam, p. 386
futon, p. 386
innerspring, p. 386
solid core, p. 386
Melamine, p. 28
Metallurgy, p. 432
Mice, p. 97
Microscopy (of fabric), p. 335
NBS chamber, p. 118
NIST smoke toxicity test, p. 488
OSU heat release unit, p. 243
Oxidant concentration, p. 335
Oxygen
availability, p. 365
content, p. 411
index, pp. 28, 183, 335
Passive fire protection, p. 188
PB-370, p. 470
PB-460, p. 470
Perfluoropolymers, p. 488
Phosphonium salt, p. 335
Plastics, p. 169
Polychlal fiber, p. 323
Polyurethane foam, p. 28
Proban CC, p. 335
PVC samples, p. 294
Radiant combustion, p. 72
Rats, p. 97
Refurbished house, p. 58
Self-ignition temperature, p. 352
Sensors, p. 169
Smoke
analysis, p. 432
box, ISO, p. 118
chamber, p. 3
corrosivity, pp. 72, 160, 169, 294, 432
damage, p. 188
decomposition model, p. 432
density testing, p. 118
electrical charges on, p. 188
evaluation, p. 411
exposure model, p. 432
hazard, p. 289
release rate, pp. 3, 294
toxicity, pp. 72, 97, 283, 289, 457, 488
Soot, p. 169
Specific extinction area, p. 118
Spontaneous heating, p. 352
Static systems, p. 118
Telecommunications damage, p. 169
Test apparatus, p. 183

(continued)

Subject Index *(continued)*
Thermal analysis, pp. 323, 335
Thermal degradation, p. 323
Toxic fire hazard, p. 283
Toxicity of smoke, pp. 72, 97, 283, 289, 457, 488
Upholstery
  combustibility of, p. 401
  fabric, p. 365
  flammability of, p. 243
UPITT test method, pp. 283, 289
Vent flow rates, p. 528
Water hardness, p. 335
Wetting agents, p. 20
Wood fires, extinction of, p. 20
Zone models, p. 528

AUTHOR INDEX

Alarie, Y. C., pp. 289, 457
Allen, J., p. 335
Baker, B. B., Jr., p. 488
Barth, E., p. 432
Bonesteel, J. K., p. 488
Bottin, M.-F., p. 160
Bußmann, B., p. 411
Chen, X. D., p. 352
Clarke, F. B., p. 488
Cornelissen, A. A., p. 3
Crane, C. R., p. 133
Damant, G. H., p. 386
Drysdale, D. D., p. 102
Edwards, N. L. C., p. 28
Egresi, M., p. 118
Einbrodt, H. J., p. 411
Endecott, B. R., p. 133
Fukatsu, K., p. 323
Gallagher, J. A., pp. 40, 243
Grace, O. M., p. 243
Grand, A. F., pp. 72, 283
Green, J., p. 470
Herpol, C., p. 488
Hirschler, M. M., p. 97
Horrocks, A. R., pp. 28, 335
Hughes, K. C., p. 20
Ihrig, A. M., p. 365
Janssens, M., pp. 488, 528
Jones, J. C., p. 20
Kasprzak, D. J., p. 488
Macmillan, A. J. R., p. 102
Makovec, G. T., p. 488
Müller, B., p. 432
Norman, V., p. 365
Nurbakhsh, S., p. 386
Ojinnaka, S., p. 335
Patton, J. S., p. 294
Prager, F. H., pp. 118, 411, 432
Price, D., pp. 28, 335
Reagor, B. T., p. 169
Reiser, D., p. 260
Sanders, D. C., p. 133
Sasse, H. R., pp. 118, 411
Seidel, W. C., p. 488
Smiecinski, T. M., p. 243
Stott, J. B., p. 352
Tewarson, A., p. 188
Tran, H. C., p. 528
Tsuchiya, Y., p. 58
Valentine, R., p. 488
van Kuijk, H., p. 488
Wearing, H., p. 20
Wharton, R. K., p. 183
Wittbecker, F.-W., pp. 118, 432
Wu, E-C., p. 365
Zorgman, H., p. 118